

5 a lower drive shaft coupled to the top drive output shaft and comprising an adjustable segment that 6 is selectively adjustable to adjust the length of the second drive shaft; 7 a lower pipe engagement assembly including a central passageway sized for receipt of the pipe 8 segment, the lower pipe engagement assembly being operative to releasably grasp the pipe segment, the 9 lower pipe engagement assembly being connected to the second drive shaft, whereby actuation of the top 10 drive assembly causes the lower pipe engagement assembly to rotate; and 11 means for applying a force to the second shaft to cause the length of the adjustable segment to be 12 shortened. The pipe running tool of claim &, wherein the means for applying comprises a load 1 2 compensator in the form of a pair of hydraulic cylinders. 1 The pipe running tool of claim 9, wherein the lower pipe engagement assembly is actuated 2 by one of a hydraulic system and a pneumatic system. The pipe running tool of claim, wherein the lower pipe engagement assembly comprises a generally cylindrical housing defining a central passage, and a plurality of slips disposed within the housing 3 and displaceable radially inwardly to engage a casing segment extending through the passage. 1 The pipe running tool of claim, further including a block connected to the top drive 2 assembly and adapted for engaging a plurality of cables connected to the rig to selectively raise and lower the top drive assembly. 1 10 VA. (Amended) A pipe running tool mountable on a rig and designed for use in connection with 2 a top drive assembly adapted to be connected to the rig for vertical displacement of the top drive assembly 3 relative to the rig, the top drive assembly including a drive shaft, the top drive assembly being operative to 4 rotate the drive shaft, the pipe running tool comprising: 5

is selectively adjustable to adjust the length of the second drive shaft;

6

a lower drive shaft coupled to the top drive output shaft and comprising an adjustable segment that

7	means for applying a force to the second shaft to cause the length of the adjustable segment to be
8	shortened; and
9	a lower pipe engagement assembly comprising:
10	a housing defining a central passageway sized for receipt of a pipe segment, the housing
11	being coupled to the top drive assembly for rotation therewith,
12	a plurality of slips disposed within the housing and displaceable between disengaged and
13	engaged positions, and
14	a powered system connected to the respective slips and operative to selectively drive the slips
15	between the disengaged and engaged positions.
	The pipe running tool of claim 19, further including a hoist mechanism connected to the
1	The pipe running tool of claim 17, further including a noist mechanism connected to the
2	lower pipe engagement assembly and operative to hoist a pipe segment into the central passageway of the
3	lower pipe engagement assembly.
1	The pipe running tool of claim 18, wherein the hoist mechanism comprises an axle journaled to the lower pipe engagement member, a pair of pulleys rotatably mounted to the axle, and a gear connected
2	to the lower pipe engagement member, a pair of pulleys rotatably mounted to the axle, and a gear connected
3	to the axle, whereby the gear may be coupled to a drive system for rotating the axle.
	jø.
1	The pipe running tool of claim 14, wherein the powered system comprises one of a hydraulic
2	and pneumatic system.
	le
1	The pipe running tool of claim 14, further including a block connected to the top drive
2	assembly and adapted for engaging a plurality of cables connected to the rig.
1	In a system for assembling a pipe string comprising a top drive assembly, a lower pipe
2	engagement assembly coupled to the top drive assembly for rotation therewith and operative to releasably
3	engage a pipe segment, and a load compensator operative to raise the lower pipe engagement assembly
4	relative to the top drive assembly, a method for threadedly engaging a pipe segment with a pipe string,
5	comprising the steps of:
6	actuating the lower pipe engagement assembly to releasably engage a pipe segment;
-	· · · · · · · · · · · · · · · · · · ·